

WHAT IS CLAIMED IS:

1. A method of producing a piezoelectric element comprising
forming a piezoelectric body material having a layered perovskite
structure into a green sheet;
printing an electrode paste onto the green sheet at a plurality of
5 positions such that the resulting electrode paste printings are substantially parallel to
each other on the green sheet;
laminating a plurality of said green sheets such that the electrode paste
printings are interposed between piezoelectric body material, whereby a laminate is
formed;
10 firing the laminate such that the C axes of the piezoelectric body
materials are oriented substantially parallel to the lamination direction of the
laminate, and
polarizing the fired laminate substantially perpendicular to the
orientation direction of the C axes.
2. A method of producing a piezoelectric element according to claim 1,
wherein the plurality of green sheets are laminated such that an electrode paste
printing on each of at least two green sheets overlap one another in the lamination
direction.
3. A method of producing a piezoelectric element according to claim 2,
wherein the electrode paste printings are effected in substantially straight lines.
4. A method of producing a piezoelectric element according to claim 3,
wherein each electrode paste printing has first and second ends, and including
disposing a conductor at said first end and an insulator at said second end.

5. A method of producing a piezoelectric element according to claim 4, wherein said disposing a conductor at said first end and an insulator at said second end is effected such that the first end of one of a pair of adjacent parallel printings is adjacent the second end of the other of the pair of adjacent parallel printings.

6. A method of producing a piezoelectric element according to claim 5, including electrically connecting first ends of printings which overlap one another in the lamination direction to the same potential.

7. A method of producing a piezoelectric element according to claim 6, wherein the piezoelectric ceramic body is selected from the group consisting of $Na_{0.5}Bi_{4.6}Ti_4O_{15}$, $CaBi_4Ti_4O_{15}$, $SrBi_4Ti_4O_{15}$ and $Bi_4Ti_3O_{12}$.

8. A method of producing a piezoelectric element according to claim 1, wherein the laminating is such that a plurality of electrodes are arranged in an interdigital electrode form.

9. A method of producing a piezoelectric element according to claim 1, wherein the electrode paste printings are effected in substantially straight lines.

10. A method of producing a piezoelectric element according to claim 9, wherein each electrode paste printing has first and second ends, and including disposing a conductor at said first end and an insulator at said second end.

11. A method of producing a piezoelectric element according to claim 1, wherein each electrode paste printing has first and second ends, and including disposing a conductor at said first end and an insulator at said second end.